PATENT COOPERATION TREATY 10/532619

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT WIPO

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(PCT Article 36 and Rule 70)

Applicant' s or agent' s file reference		Con Matificati			
PD-201014	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/mon	th/year)	Priority date (day/month/year)		
PCT/US03/32800	16 October 2003 (16.10.2003)		25 October 2002 (25.10.2002)		
International Patent Classification (IPC) or national classification and IPC					
IPC(7): H04L 27/20 and US Cl.: 375/295					
Applicant					
THE DIRECTV GROUP, INC.					
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of sheets, including this cover sheet.					
This report is also accompanied by ANNEVES in about of the description					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made					
before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
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These annexes consist of a 3. This report contains indica					
3. This report contains indications relating to the following items:					
I Basis of the report					
II Priority					
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step and industrial applicability				
IV Lack of unity of					
V Reasoned staten applicability; ci	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain docume					
VII Certain defects	in the international application				
VIII Certain observa	tions on the international application				
Date of submission of the demand	Date	of completion	of this report		
24 May 2004 (24.05.2004)		14 August 2004 (14.08.2004)			
Name and mailing address of the IPEA/US		rigad office			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents Authorized officer					
P.O. Box 1450 Alexandria, Virginia 22313-1450			VWM D VVW		
Form PCT/IPEA/409 (cover sheet) (buly 1998)					



¼INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	application l

PCT/US03/32800 I. Basis of the report 1. With regard to the elements of the international application:* the international application as originally filed. the description: ___ as originally filed pages 1-42 pages NONE, filed with the demand pages NONE _____, filed with the letter of ____ the claims: pages 43-46 _____, as originally filed pages NONE, as amended (together with any statement) under Article 19 _____, filed with the demand pages NONE pages NONE , filed with the letter of the drawings: pages 1-35 __ as originally filed ____, filed with the demand pages NONE ____, filed with the letter of pages NONE the sequence listing part of the description: pages NONE as originally filed ____, filed with the demand pages NONE pages NONE , filed with the letter of _ 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished The amendments have resulted in the cancellation of: the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.



→ INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US03/32800

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims 1-23	YES		
	Claims NONE	NO		
Inventive Step (IS)	Claims 1-23	VMO.		
	Claims NONE	YES NO		
Industrial Applicability (IA)	Claims 1-23	YES		
	Claims NONE	NO		
teach the no guard band being used within the freque 2002/0126780 A1 do not explicitly teach or provide a Therefore, prior arts do not teach or fairly suggest ar frequency band, a lower layer signal with a second on o guard band is used within the frequency band, and and the lower layer signal. NEW CITATIONS	upper layer signal with a first excess	n ration in uper and lower layer signal. ss bandwidth ratio at a first power level in a		
NONE	•	,		
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